

ABSTRACT OF THE DISCLOSURE

An electronic control apparatus has a memory which stores a map consisting of a set of map points and corresponding set of map values, with the map values 5 representing respective physical quantity values, and at least one of the sets of map points and map values being stored as fixed-point representation data. When a map point is specified, the apparatus obtains a corresponding physical quantity value by converting fixed-point data of 10 the map to floating-point representation, then using a floating-point arithmetic unit to perform an interpolation calculation using the converted data.